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WHAT IS CLAIMED IS:

- 1. An adhesive prepared from components comprising:
 - (a) a polydiorganosiloxane having the general formula

 R¹R₂SiO(R₂SiO)_nSiR₂R¹ and a number average molecular weight of at least 20,000, wherein each R is independently a monovalent hydrocarbon group, each R¹ is independently an alkenyl group, and n is an integer.
 - (b) a polydiorganosiloxane having the general formula $R^1R_2SiO(R_2SiO)_m(R^1RSiO)_nSiR_2R^1$ and a number average molecular weight of less than 20,000, wherein each R and R^1 is independently a monovalent hydrocarbon group, at least two R^1 groups are alkenyl groups, and m and n are integers the sum of which provide an alkenyl equivalent weight of about 250 to about 10,000;
 - (c) an organopolysiloxane MQ resin which contains (R²)₃SiO_{1/2} units and SiO₂ units in a molar ratio in the range of 0.6:1 to 1:1, wherein each R² is independently selected from the group of alkyl groups, alkenyl groups, or hydroxyl groups, wherein at least 95 mole percent of all R² groups are methyl groups;
 - (d) an organohydrogenpolysiloxane free of aliphatic unsaturation having an average of at least 2 silicon-bonded hydrogen atoms in each molecule, in a quantity sufficient to provide from 1 to 40 siliconbonded hydrogen atoms per alkenyl group in components (a) through (c); and
 - (e) a Group VIIIB-containing catalyst in a quantity sufficient to provide 0.1 to 1,000 weight parts Group VIIIB metal for each one million weight parts of the combined quantity of components (a) through (d).
- 2. The adhesive of claim 1 wherein the organopolysiloxane MQ resin includes both nonfunctional and functional MQ resins.

- 3. The adhesive of claim 2 wherein the functional MQ resin includes alkenyl groups.
- 5 4. The adhesive of claim 1 when disposed on a fluorosilicone-coated polyethylene terephthalate release liner and a propylene/ethylene copolymer backing at a coating weight of 0.8 grams/154.8 cm² to form a laminate, and when adhered to a glass plate, displays a 180° release force of no greater than about 20 N/dm when measured at 30.5 cm/minute and room temperature.
 - 5. The adhesive of claim 4 which displays a release force of no greater than about 15 N/dm.
- 15 6. The adhesive of claim 5 which displays a release force of no greater than about 10 N/dm.
 - 7. The adhesive of claim 6 which displays a release force of no greater than about 5 N/dm.

8. The adhesive of claim 1 when disposed on a propylene/ethylene copolymer backing at a coating weight of 0.8 grams/154.8 cm² and adhered to a polypropylene plate displays a 180° peel force of at least about 5 N/dm when measured at 30.5 cm/minute and room temperature.

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- 9. The adhesive of claim 1 which is a pressure sensitive adhesive.
- 10. An adhesive article comprising a substrate having disposed on at least one major surface the silicone-based adhesive of claim 1.

- 11. The adhesive article of claim 10 wherein the organopolysiloxane MQ resin includes both nonfunctional and functional MQ resins
- 5 12. The adhesive article of claim 10 further comprising a release liner disposed on the adhesive.
- 13. The adhesive article of claim 10 wherein the adhesive when disposed on a fluorosilicone-coated polyethylene terephthalate release liner and a propylene/ethylene copolymer backing at a coating weight of 0.8 grams/154.8 cm² to form a laminate, and when adhered to a glass plate, displays a 180° release force of no greater than about 20 N/dm when measured at 30.5 cm/minute and room temperature.
- 15 14. The adhesive article of claim 13 wherein the adhesive displays a release force of no greater than about 5 N/dm.
- The adhesive article of claim 10 wherein the adhesive when disposed on a propylene/ethylene copolymer backing at a coating weight of 0.8
 grams/154.8 cm² and adhered to a polypropylene plate displays a 180° peel force of at least about 5 N/dm when measured at 30.5 cm/minute and room temperature.
- The adhesive article of claim 10 wherein the backing comprises apuncturable material.
 - 17. The adhesive article of claim 10 wherein the adhesive is a pressure sensitive adhesive.

- 18. An analytical receptacle comprising a surface and a cover tape adhered to the surface; wherein the cover tape comprises a backing and the adhesive of claim 1 disposed on at least one major surface of the backing and in contact with the receptacle surface.
- 19. The analytical receptacle of claim 18 further comprising one or more reservoirs in the form of a well or channel.
- The analytical receptacle of claim 18 wherein the analytical receptacle comprises a substantially continuous tape.
 - The analytical receptacle of claim 18 wherein the adhesive is a pressure sensitive adhesive.
- The analytical receptacle of claim 18 wherein the adhesive when disposed on a fluorosilicone-coated polyethylene terephthalate release liner and a propylene/ethylene copolymer backing at a coating weight of 0.8 grams/154.8 cm² to form a laminate, and when adhered to a glass plate, displays a 180° release force of no greater than about 20 N/dm when measured at 30.5 cm/minute and room temperature.
 - 23. The analytical receptacle of claim 22 wherein the adhesive displays a release force of no greater than about 5 N/dm.
- 25 24. The analytical receptacle of claim 18 wherein the adhesive when disposed on a propylene/ethylene copolymer backing at a coating weight of 0.8 grams/154.8 cm² and adhered to a polypropylene plate displays a 180° peel force of at least about 5 N/dm when measured at 30.5 cm/minute and room temperature.

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- 25. The analytical receptacle of claim 18 further comprising one or more reservoirs including a liquid therein during use.
- 5 26. The analytical receptacle of claim 25 wherein the liquid comprises dimethyl sulfoxide, water, acetonitrile/water, methanol, ethanol, or mixtures thereof.
 - 27. The analytical receptacle of claim 18 comprising a microtiter plate.

28. The analytical receptacle of claim 18 comprising a microfluidic device

- comprising a substrate and one or more channels therein.
- 29. The analytical receptacle of claim 18 comprising a substantially continuous polymeric strip comprising a plurality of reservoirs at predetermined intervals along its length.
 - 30. The analytical receptacle of claim 29 wherein the reservoirs are uniformly spaced.

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An analytical receptacle comprising a surface comprising polypropylene, polystyrene, or combination thereof, and a cover tape adhered to the surface; wherein the cover tape comprises a backing and an adhesive disposed on at least one major surface of the backing and in contact with the receptacle surface, wherein the adhesive is prepared from components comprising:

- (a) a polydiorganosiloxane having the general formula $R^{1}R_{2}SiO(R_{2}SiO)_{n}SiR_{2}R^{1} \text{ wherein each } R \text{ is independently a}$ monovalent hydrocarbon group, each R^{1} is independently an alkenyl group and n is an integer,
- (b) an organopolysiloxane MQ resin which contains (R²)₃SiO_{1/2} units and SiO₂ units in a molar ratio in the range of 0.6:1 to 1:1, wherein each R² is independently selected from the group of alkyl groups, alkenyl groups, or hydroxyl groups, wherein at least 95 mole percent of all R² groups are methyl groups;
- (c) an organohydrogenpolysiloxane free of aliphatic unsaturation having an average of at least 2 silicon-bonded hydrogen atoms in each molecule, in a quantity sufficient to provide from 1 to 40 silicon-bonded hydrogen atoms per alkenyl group in component (a) and component (b) if present; and
- (d) a Group VIIIB-containing catalyst in a quantity sufficient to provide 0.1 to 1,000 weight parts Group VIIIB metal for each one million weight parts of the combined quantity of components (a) through (c).

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An analytical receptacle comprising a surface and a cover tape adhered to the surface; wherein the cover tape comprises a backing and an adhesive disposed on at least one major surface of the backing and in contact with

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the receptacle surface, wherein the adhesive is prepared from components comprising:

- (e) a polydiorganosiloxane having the general formula $R^{1}R_{2}SiO(R_{2}SiO)_{n}SiR_{2}R^{1} \text{ wherein each } R \text{ is independently a}$ monovalent hydrocarbon group, each R^{1} is independently an alkenyl group and n is an integer;
- (f) an organopolysiloxane MQ resin which contains (R²)₃SiO_{1/2} units and SiO₂ units in a molar ratio in the range of 0.6:1 to 1:1, wherein each R² is independently selected from the group of alkyl groups, alkenyl groups, or hydroxyl groups, wherein at least 95 mole percent of all R² groups are methyl groups;
- (g) an organohydrogenpolysiloxane free of aliphatic unsaturation having an average of at least 2 silicon-bonded hydrogen atoms in each molecule, in a quantity sufficient to provide from 1 to 40 siliconbonded hydrogen atoms per alkenyl group in component (a) and component (b) if present; and
- (h) a Group VIIIB-containing catalyst in a quantity sufficient to provide 0.1 to 1,000 weight parts Group VIIIB metal for each one million weight parts of the combined quantity of components (a) through (c);
- wherein the adhesive when disposed on a fluorosilicone-coated polyethylene terephthalate release liner and a propylene/ethylene copolymer backing at a coating weight of 0.8 grams/154.8 cm² to form a laminate, and when adhered to a glass plate, displays a 180° release force of no greater than about 20 N/dm when measured at 30.5 cm/minute and room temperature.

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- 33. A method of making an adhesive comprising: preparing a composition comprising:
 - (a) a polydiorganosiloxane having the general formula $R^1R_2SiO(R_2SiO)_nSiR_2R^1$ and a number average molecular weight of at least 20,000, wherein each R is independently a monovalent hydrocarbon group, each R^1 is independently an alkenyl group, and n is an integer,
 - (b) a polydiorganosiloxane having the general formula $R^1R_2SiO(R_2SiO)_m(R^1R_2SiO)_nSiR_2R^1$ and a number average molecular weight of less than 20,000, wherein each R and R^1 is independently a monovalent hydrocarbon group, at least two R^1 groups are alkenyl groups, and m and n are integers the sum of which provide an alkenyl equivalent weight of about 250 to about 10,000;
 - (c) an organopolysiloxane MQ resin which contains (R²)₃SiO_{1/2} units and SiO₂ units in a molar ratio in the range of 0.6:1 to 1:1, wherein each R² is independently selected from the group of alkyl groups, alkenyl groups, or hydroxyl groups, wherein at least 95 mole percent of all R² groups are methyl groups;
 - (d) an organohydrogenpolysiloxane free of aliphatic unsaturation having an average of at least 2 silicon-bonded hydrogen atoms in each molecule, in a quantity sufficient to provide from 1 to 40 silicon-bonded hydrogen atoms per alkenyl group in components (a) through (c); and
- 25 (e) a Group VIIIB-containing catalyst in a quantity sufficient to provide
 0.1 to 1,000 weight parts Group VIIIB metal for each one million
 weight parts of the combined quantity of components (a) through (d);
 and

thermally curing the composition.

34. A method of sealing an analytical receptacle comprising applying a cover tape comprising a backing and the adhesive of claim 1 disposed on at least one major surface thereof.

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